

# Center Employees Observe United Fund Agencies

Each year NASA employees set the pace for donating to the Combined Federal Campaign (CFC) which incorporates the fund-raising efforts of National Health Agencies, International Service Agencies and United Fund Agencies. Many of these employees, however, never get the opportunity to see how their dollars "work" for the thousands of people benefiting from their contributions.

Last week, a group of Center employees took time from busy schedules to visit some of the Harris County agencies which receive donations from the Houston United Fund.

One agency visited was the Cerebral Palsy Treatment Center which has operated since 1946 for the benefit of children and young adults who have palsy. Patients from metropolitan Houston and Harris County, as well as several surrounding communities are brought to the Center for treatment daily.

Since Cerebral Palsy affects muscle control centers of the brain, its most common characteristics are awkward, shambling gait, lack of balance, tremors, gutural speech and grimacing. Spasms and seizures in varying

degrees, mental retardation and hearing and vision defects are also common effects of this disorder.

The JSC group observed some of the patients undergoing speech, occupational and physical therapy provided under medical supervision.

The Center attempts to give each patient greater independence in everyday living through the development of physical and academic skills.

Pre-school, public school and other special groups are included in the educational program.

The group also toured various areas of the Houston Lighthouse For the Blind, including the Manufacturing and Fabrication Division and the library. The group observed blind workers training for such occupations as medical transcriptionists, MTST (Magnetic Tape Selectric Typewriter) operators and other positions.

In the past, the Lighthouse merely "took care of the Blind." However, in recent years, the Agency has begun training the blind to take care of themselves rather than harboring feelings of frustrations and self-pity.

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## Earth Observations Major ASTP Goal

Earth observations will be a major part of the work of the American astronauts on the joint United States-Soviet Union space mission scheduled for July, 1975.

As on the Apollo and Skylab missions, the American astronauts will take pictures and record their comments about the Earth as they observe features ranging from weather phenomena to volcanoes during the 10-day mission.

They will use Hasselblad 70mm cameras and voice recorders, with visual observations complementing the photographs.

The human eye's ability to distinguish dimly as well as brightly

lit objects, its extreme color sensitivity and the observer's vantage point in space will permit a better understanding of physical phenomena.

Types of features being considered for study on the ASTP mission include:

- Studies of major active strike-slip fault zones in both eastern and western hemispheres and identification of extensions of fault systems by studying vegetation or drainage patterns.

- Studies of closed-basin water circulation and shore lines as well as snow cover

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MAJOR GENERAL JOHN HOSS (left) Chairman of the Federal Division Campaign for the United Fund, accepts a mail bag from Bill Kelley (right) JSC Chairman for the United Fund, containing \$127,367.11 in cash and pledges from Johnson Space Center employees. The money inside the bag represents 84 percent of this year's projected quota of \$150,800.

# ROUNDUP

NASA LYNDON B. JOHNSON SPACE CENTER

HOUSTON, TEXAS



VOL. 13 NO. 22

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VIEWING ODDS AND ENDS—A group of JSC employees recently visited some of the Agencies that receive donations from the Houston United Fund. The employees above are viewing various objects made by students at the Retarded Center in Houston.

## Dr. Debus Requests Early Retirement

Dr. Kurt H. Debus, Director of the Kennedy Space Center (KSC) since its establishment in 1962, has requested retirement at an early date. KSC is the major NASA space launch facility.

Miles Ross, Deputy Director, will function as Acting Center

its own—from the launch of the first American satellite in 1958 to building and operating the great launch complex at Cape Canaveral for the Apollo manned lunar landings. His leadership at the Kennedy Space Center was a key factor in this nation's achievement of space supremacy and preparation for Space Shuttle and other future programs designed to exploit space for the benefit of humankind."

In a letter to Center employees, Dr. Debus said he was retiring at a time when the installation's future has been assured and construction is underway to accommodate the Space Shuttle transportation system in the 1980's.

Dr. Debus is completing 30 years in Federal employment. His career in military and NASA programs began in 1945 at Fort Bliss, Tex., and White Sands, N.M., where the U.S. Army conducted research activities.

Dr. Debus supervised construction of KSC while directing activities of the launch center through the entire manned and

unmanned programs from the flight of Alan Shepard in 1961 to preparations for Space Shuttle Operations.

Dr. Debus was born in Frankfurt, Germany in 1908. He attended Darmstadt University where he earned advanced degrees in mechanical and electrical engineering. While serving as assistant professor he became active in the rocket research programs conducted at Peene-muende.

His unique contributions to the U.S. defense and space programs brought a number of honors including the Army's highest civilian decoration, NASA's distinguished service medal and other medals. He received honorary degrees from several universities.

Earlier this year, Dr. Debus received the Louis W. Hill Space Transportation Award from the American Institute of Aeronautics and Astronautics.

Dr. and Mrs. Debus live in Cocoa Beach, Fla., where he intends to remain in retirement. They have two daughters.



DR. KURT DEBUS

Director, pending selection of a successor.

Dr. James C. Fletcher, NASA Administrator, expressed deep regret over Dr. Debus' decision.

"Kurt Debus is one of the outstanding pioneers in space exploration," Dr. Fletcher remarked. "His record stands on

## Buss To Undergo Series of Flight Tests

A telescope which may one day find its way aboard the Space Shuttle, will undergo a series of tests next month when it's balloon-lifted 25 miles above the rolling hills of east Texas.

Designed to gather scientific data on various types of stars, including "giant" and "supergiant" stars, this candidate experiment for the Space Shuttle era is called Balloon-borne Ultraviolet Stellar Spectrometer (BUSS). It is the experiment of Dr. Yoji Kondo of the NASA Johnson Space Center, Houston, Texas, with co-investigators Dr. T.H. Morgan of JSC and Prof. Jerry L. Modisette of the Houston Baptist

College.

The BUSS payload contained in a gondola attached beneath a giant balloon, will be launched from the National Scientific Balloon Facility of the National Center for Atmospheric Research (NCAR) at Palestine, Texas. Launch date is tentatively set for the first week in October.

"Purpose of the BUSS flight is to gain information on six stars including Adelbarn, a 'giant' star in the Taurus Constellation and Betelgeuse, a 'supergiant' star in the Constellation Orion," said Dr. Kondo. The experiment package will be aloft for a minimum float observation time of

5 1/2 hours.

Mission manager for JSC's BUSS flight is David R. White of the Center's Planetary and Earth Sciences Division.

Launch operations will be conducted by personnel of the NCAR facility at Palestine. Time of the launch will be late evening with recovery of the payload and the scientific instruments set for the following morning after local sunrise. The launch balloon, when fully inflated with 15.5 million cubic feet of helium, will be more than 300 feet tall.

Ground stations will track the scientific payload during a

(Continued on Page 3)



...the tiny flicker that turns fuel into tragedy!

Few are aware that vapors from flammable liquids are dangerous.

People fill lawn mowers, clean paint brushes and car parts in the garage, which houses the water heater or gas dryer. Vapors from flammable liquids spill out and drift to the pilot light of the appliance. The resulting explosion is tragic!

DON'T MISS THE SILENT EPIDEMIC, an informative presentation on the treatment of burns and the avoidable hazards of combustible liquids.

COMING ON TUESDAY, OCTOBER 8th at 2 PM in the Building 2 auditorium.

## Jean Norris Receives Award

Reliability, proficiency, and cheerfulness are only a few of the qualities of this month's outstanding secretary.

Delores Jean Norris is private secretary to Robert G. Chilton, Chief of the Control Systems Development Division (CSDD) and for the staff offices of the



JEAN NORRIS

same. This amounts to secretarial support to three levels of supervision in the Division office. Additionally, she is the senior secretary of approximately 132 people and is responsible for the activities of ten other secretaries.

Her numerous assigned duties include secretarial and clerical duties in connection with the management of the immediate office, receiving calls, visitors, mail, and maintenance of records of all correspondence and of all office files. The list goes on in length, and alike, Mrs. Norris goes on efficiently and cheerfully.

According to Chilton, Mrs. Norris never loses her temper, nor is she distressed at working odd hours or meeting difficult deadlines. Due to her unusual proficiency, no time is lost to errors, resulting in time and money savings and satisfying the group's needs.

Mrs. Norris has performed her duties outstandingly under the difficult conditions of a sudden and complete change in the division organization, staff members, and personnel. Her maintenance of orderly administrative procedures for the old Guidance and Control Division contributed greatly to the performance of the new Control Systems Development Division during the transition period. Her exceptional grasp of all elements of the new divisional responsibility has enabled the new management to assume its duties with a minimum of difficulty.

Prior to her reassignment to

the division office, Mrs. Norris served as secretary to the Manager of the Apollo/Skylab GN&C Project Office, Guidance and Control Division. Her performance in that capacity was of the same superior caliber.

Another attribute of hers is that she is able to plan and carry out all aspects of her job with only a minimum of direction. Chilton related it a pleasure to have Mrs. Norris as his secretary, as she is an asset to the CSDD, to the NASA-Johnson Space Center and has contributed greatly to the performance of the Center.

### Attention GS 15's!

The Civil Service Commission has sent an announcement of the 1974-1975 Federal Executive Development Program to each GS-15 who is on record in the Federal Executive Inventory. This program will enable a total of 35 outstanding senior managers in the federal service who have demonstrated executive potential to participate in an intensive, year long development program. Through a combination of seven weeks of formal training at the Federal Executive Institute and subsequent developmental assignments in public agencies, they will be able to expand their basis of managerial experience and competence and to test their own capacities for executive performance.

Last year applications for this program were made directly to the Civil Service Commission. This year, however, applications will be made through agency channels, and NASA has been asked to submit no more than twelve employees to the Commission. GS-15 employees interested in applying for this program should send applications directly to the Employee Development Branch, AH3. Applications endorsed by Center management will then be forwarded to NASA Headquarters for the final agency competition.

Any interested GS-15 employee who did not receive a copy of the application form or who has any questions regarding the Federal Executive Development Program should contact Jim Gorman at Ext. 3734.

## 30 Year Civil Servants



DONALD ARABIAN



EDNA HAMILTON



JEROME HAMMACK



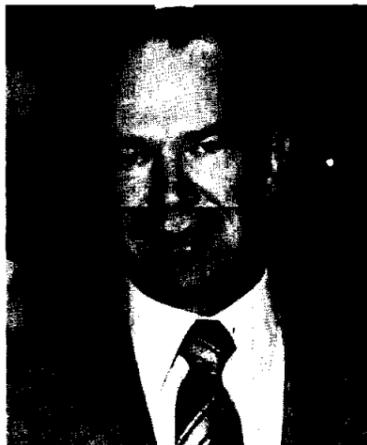
HENRY BENT



WILLIAM BLAND



E. F. PERKINS



WALTER WOLHART



LOUIS NORMAND



WILLIAM MUHLY



DONALD CHEATHAM

## Sailing Club Plans Regatta

The Clear Lake Sailing Club's annual "Waiting for the Great Pumpkin" regatta is scheduled for October 12 and 13.

The club is anticipating a large turnout of sailors from all over the state of Texas. The Windmill State Championships are being held in conjunction with the regatta, and competition of all types is anticipated in the various classes.

Registration and check-in is from 8:30-11:30 a.m., and the

Skipper's meeting will be held at 11:30 a.m. Race headquarters are at the Harris County Park on Clear Lake.

Registration fees are \$5.00 if mailed to CLSC before October 6, and thereafter will be \$7.00, including the opening day.

Mail registration to, and request further information from Pat Butler, P.O. Box 58212, Houston, Texas 77058. Office phone number is 483-3566 or home 333-4764.

## Employees' Cultural Club Sponsors 3-Day Trip

The JSC Aerospace Employees Cultural Club is sponsoring a 3-day trip to San Antonio/New Braunfels which will begin Friday, November 1 and end Sunday, Nov. 3.

Saturday, Nov. 2, the happy travelers will attend the Wurstfest in New Braunfels where they can sip a foamy brew, feast on all kinds of sausages wrapped in homemade bread, sample strudels and kartoffel pancakes, and swing out a polka! In addition, trip participants will have time to see the San Antonio

sights such as the Alamo, San Antonio Zoological Gardens, Old Spanish Missions, Hemisfair Plaza, Brackenridge Park, or take a Brewery tour.

The cost is \$40-Double occupancy and includes round trip bus transportation, two nights at the LaMansion Hotel on the San Antonio River, and entrance tickets to the Wurstfest.

Full payment must be made by October 1, 1974 to Helen Statz, MC2, Ext. 4039 REMEMBER, only one busload is going, and

reservations are on a first come, first served basis.

### Meeting

There will be a meeting for the members of the Aerospace Employees Cultural Club on Thursday, October 1, 1974, at 7:30 p.m. to discuss by-law changes and to see a film on the Caribbean cruise that is planned for December 7-14, 1974.

Take stock in America.  
Buy U.S. Savings Bonds.

# Roundup Swap-Shop

Swap Shop advertising is available to JSC and on-site contractor personnel. Articles or services must be offered as advertised, without regard to race, religion, sex or national origin. Ads should be 20 words or less, including home telephone number. Name and office code must accompany, but need not be included in ad copy. Typed or printed copy must be received (AP3 Attn; Roundup) by Thursday of the week before publication.

**MISCELLANEOUS**

Almost nw gold bird cage w/access., \$10.00; wig case & auburn shag wig, \$5.00; box magazines, \$2.00; Early Am. table lamp, \$2.00; Ear Am. Rocker, \$5.00. 941-5464.  
 Gregg Noll surfboard, 6 ft, twin-fin, piggy. Dings, repairable. \$20.00 477-5205 aft 6:00  
 C-172 4 rent, \$17.00/hr. wet. Hobby Airprt. Dual NavCom. Sched. 649-6726 Kundel 991-4403.  
 Guilbransen organ, spinet mod. 2 manual, 1 oct. ft ped., nds wk \$250. Richeson 482-1064.  
 1-Goldflake fairing 4 350-750 Honda. \$35. 477-3964 aft 5:00, Tom Taylor.  
 Ham Gear: Heath Monobanders, lk nw \$90.; Collins 75A4 recvrs. \$375.; recvrs and trans 4 novices. Lindsey 488-0517.  
 Vivitar Mod 43 Cds Expo meter \$20. Meek 334-3092 aft 6:00.  
 120 ft chain lk fence, 4 fence high, met psts, met. ple 4 top fence \$50.; VW air cond. compl. \$50.; 554-3843 aft 5:00.  
 Honeywell Strobosnar 100 elec flash, batt pwred. hot shor, \$12.50 exc cond, 488-3966.  
 Golf clubs, G Bayer mod, 3,5,7,9 irons; 1,2,3 woods; bag & cart, all \$75. 333-4696 aft 5.  
 Pr. Aux saddle tnks 4 blazer or Jimmy; pr 6-volt patt whls 334-1110.  
 Near nw scuba-pro tnk, j-valve reg, bk-pk, tnk stand. used 3 wks in class, \$200. or bst off Satterfield 2872.  
 Playground type jungle gym, welded galv, steel construction, \$40, 488-0157.  
**WANTED**  
 Honda XR-75 or Honda SL-70 for son, mst be in gd cndn, 333-4696 aft 5.  
 Wood desk, prefer secretary type wi place for typewriter, Briston, 485-2219.  
 Girl Scout leader's uniform, sz 12, Kandy, 337-1197 aft 5.  
 Riders to join car pool from the 610 loop/Westheimer area for 8 a.m. shift, Cathey, X2551.  
 Wrought iron tables/chairs, Billie, 6233.

**VEHICLES**

Honda 450-CC\* Chopper, ext, front end, Harley rear wheel, gas tank, sissy bar, also custom paint, seat, headlamps, mufflers, \$995, 925-3774 aft 5.  
 71 Yamaha 90 Enduro, xln cndn, wi helmet, \$300, or will trade for Honda XR-75 or SL-70, 333-4696 aft 5.  
 73 Honda XL 250, xln cndn wi helmet, \$750, 333-4696 aft 5.  
 64 Chrysler, gd work car, a/c, heat, nw trans, \$200, 941-5231 aft 6, HU3-2287.  
 Bike, racing style, boys/mens, 26", nw, was \$53 now \$20, 941-5231 aft 6, HU3-2287.  
 Motorola car reverb system, \$30, Sears craftsman, 2-drawer add-on tool chest \$28, 482-1179.  
 Sunbeam Alpine conv. gd body and mechanical gd, 45,000 actual mi, 4-sp'd syn, \$600. Truair, 488-2265.  
 Bike, runs gd, \$5, Richeson, 482-1064.  
 72 Suzuki, T250, roadbike, sissy bar, vry gd cndn, \$450, 991-3886.  
 71 Toyota Corona Mark II, gd cndn, must sell, \$1795, 337-2973 aft 6.  
 73 Cougar, XR-7, yellow, vinyl top, auto, air, gd cndn, 488-1270, X373.  
 72 Ford LTD shop manual, \$5, also locking gas cap for 72 Ford, \$2, Bartosh, 333-3690.  
 Go-Kart wi 4 hp Briggs and Stratton eng, gd cndn, \$75, 333-2964 aft 3.  
 70 Ford Galaxie 500, pwr, air, 59,000 mi, \$900 cash, 991-4626 aft 6.  
 64 Buick Skylark, gd tires, trans, body, nds engn work, bst ofr, also four firestone F78-14 tires less than 5000 mi, 554-3866.  
 71 Chrysler New Yorker, 4-dr sedan, pwr windows, vinyl top, a/c, am/fm, nw tires, low mi, \$2300 or bst ofr, Satterfield, 2872.  
**PET ADS**  
 3 lov fluffly kittens, free to gd homes, Lambert 337-2900.  
 Samoy puppies, AKC, 2 males \$125, 2 fem \$100, 481-1889.

**PROPERTY & RENTALS**

Frwy manor 3-1/2-2, Brick, cent air, 5 1/4% equity or \$26,700. 944-2497 aft 6:00.  
 Townhouse: 2 bdrm, 1 1/2 bth, all elec w/retri, wash & dry, freplc, \$21,000. (\$195. mo) Peggy X7409.  
 Lk Livingston—2 connect wood lots 60'x125', util & stor hse. Perf 4 trav trler or mob hme 488-3170/4588-3377 aft 5.  
 Mobile hme, 14X68, 3 1/2 ton air, wash/dry, tie dns, shed, carpet \$1000. 4 listed xtras & equity, \$105. mo 534-6007.  
**HOUSEHOLD ARTICLES**  
 Black vinyl lounge-type chair, white trim. Gd. Cond. \$35. Sue Newton, X2918.  
 2 lawn foldup lounge chairs, \$12.00 both; 2 kitchen chrs., nice, \$10.00 ea.; ornamental 3-tier post lamp \$10.00. 488-5564.  
 Antique roll top dsk, unusual, perf cond \$1500; antq red velvt chr, \$300. 488-5564.  
 Magnavox 21" color tv, table top model, 6 yrs old, nds only minor tune-up, \$100 Gibson, 488-6024 aft 6.

**LOST AND FOUND**

Found zipper coin purse at JSC picnic September 14, owner may claim by describing same and contents. Evon, 3787.

## Attention To All On-Site Employees

A Center Announcement issued on August 16 (JSCA 74-114 explained and implemented the new procedure for publication of the JSC Telephone Directory. Please note that October 18 will be cutoff date for NASA employees and onsite contractors to submit new information or changes for inclusion in the November Directory.

Since no further calls for input to new directories will be issued, now is the time for all employees and organizations to review the current directory and to send necessary corrections to Telecommunications Section (JM33).

## Plaque Presented

JSC Director of Life Sciences Richard S. Johnston today presented the Royal Air Force Institute of Aviation Medicine a plaque bearing a British Union Jack flown aboard Skylab 4.

Speaking at an Institute meeting of flight surgeons at Farnborough, England, Johnston presented the plaque in recognition of RAF Squadron Leader Michael W. Whittle, who has been on loan to JSC as a member of the Skylab Medical Team since November 1972. Johnston also presented a paper on Skylab medical results, Kenneth S. Kleinknecht a paper on overall Skylab results, and John Zarcaro a paper on NASA Earth Resources activities at the Farnborough meeting.

Johnston will present a similar plaque to the German Air Force Institute of Aviation Medicine in Munich October 9 in recognition of Lt. Col. Eduard C. Burchard, on loan from the German Air Force as a JSC Skylab medical team member since March 1973. The plaque includes a small flag of the Federal Republic of Germany which was flown aboard Skylab 4.

Take stock in America. Buy U.S. Savings Bonds.



ASTP COSMONAUTS—Participate in a Russian language class at Clear Lake High School. Cosmonaut Aleksey A. Leonov, second from left on the front row, asks questions in English and student James Morrison, far right, answers in Russian. Other ASTP principals in the picture include (front row, l.-r.) Cosmonaut Vladimir Shatalov, Chief of Cosmonaut Training, USSR; Leonov, Cosmonaut Valeriy N. Kubasov, engineer of the Soviet crew; and Astronaut Vance D. Brand, command module pilot for the American crew.

## EAA Attractions

**SHRINE CIRCUS**

The EAA will again this year sponsor NASA Night at the Arabia Shrine Circus. The performance will start at 6:00 p.m. Sunday, October 13 at the Sam Houston Coliseum.

Among the collection of circus acts will be Tarzan and his outstanding animal act; Tommy the Tusker and his elephant herd; Blinko the Clown, and others.

Tickets for the best seats in the house—center ring—are available at half price (\$2.75) for this performance only. (Building 11 Exchange Store).

Volleyball organizational meetings for both the Men's and Women's teams will be held October 7 at the Gilruth Recreation Facility. This date also marks the deadline for entering teams.

**DEAN GOSS**

Discount coupons for the Dean Goss Dinner Theatre will be available in the Building 11 Exchange Store the first week in October. The discount is 25%, \$7 for \$9.50 tickets—and will be honored anynight except Friday and Saturday. Initial sales will be during October only. However if enough interest is indicated, the sales will be continued.

**SOFTBALL**

The Blazers managed to capture first place at the EAA Softball Tournament held recently at JSC. Second place went to the Dynamos; the Vagabonds came in third.

The Most Valuable Player Award went to Mario Delgado of the Blazers. Nick Lance, also of the Blazers received the runner-up award to the MVP; he also claimed the Fielder's award.

Special awards went to Charlie Cone, Eddie Simms and Danny McFarland who hit three, two

and one over-the-fence home runs respectively.

Awards also went to Cecil Dorsey of SoPac for pitching a shut-out and Buddy Lippert of the Vagabonds who was captain of the "Best Team". The Vagabonds have only eight players.

Director's trophies went to the Hombres and the Oreos.

**TICKET CORNER**

Astros, any game, \$2.50 and \$3.50 discount coupons good for \$3.50 and \$4.50 seats.

Astroworld, all season, adults \$4.25, children \$3.25.

Six Flags, all season, adults \$5.60, children \$4.70.

Seven Seas, all season, adults \$3, children \$2.20.

Lion Country Safari, year around, free safari cards good for 10 percent discount.

Sea Arama, year around, adults \$3, children \$2.

ABC Theatres—\$1 coupon good for admission to any ABC Interstate Theatre.

Disney Magic Kingdom Club, free.

Dean Goss Dinner Theatre, \$7 coupon for \$9.50 ticket (M-Th only).

Shrine Circus, Oct 13, 6 p.m. performance only, \$5.50 seats for \$2.75.

## Earth Obs

(Continued from Page 1)

studies to be used later in conjunction with photographs taken of the Himalayas and hydrological studies of photographs taken over Indian Plains and land areas inundated by rivers.

—Studies of ocean upwellings and their hydrological and biological effects and of major trends of the ocean currents.

## Buss Flight

(Continued From Page 1)

launch and float period and will monitor recovery procedures. At completion of the 5.5 hour observation period the payload will be disengaged from the balloon system and lowered to the ground by a 64-foot diameter parachute.

The BUSS scientific payload consists of a 16-inch telescope, an Ebert Fastie spectrometer, detector, star pointing and control system and telemetry and command system. The 300-foot tall balloon will lift the 1,200 lb. payload to float altitude in about 2 hours.

At the 130,000 foot altitude,

the BUSS instruments will be above 99.8% of the Earth's atmosphere and will receive and transmit to a NASA ground station observations in the ultraviolet (UV) wavelengths which do not penetrate the Earth's atmosphere.

Information gained from this and subsequent BUSS flights will be helpful to scientists in further understanding the birth of stars and planetary systems. This phase is a forerunner of future programs in concert with European scientists.



ASTP CREWMEN AT ASTRODOME—Cosmonaut Aleksey A. Leonov, right, commander of the Soviet ASTP crew, attempts a field goal during halftime activity of a football game between the former Houston Texans and the Hawaii franchise of the new World Football League, at the Astrodome. Holding for the kick is Astronaut Donald K. Slayton, docking module pilot for the American ASTP crew. The astronauts and cosmonauts joined local celebrities in the field goal "contest" during the intermission of the WFL game.

# ROUNDUP

NASA LYNDON B JOHNSON SPACE CENTER    HOUSTON TEXAS

The Roundup is an official publication of the National Aeronautics and Space Administration Lyndon B. Johnson Space center, Houston, Texas, and is published every other Friday by the Public Affairs Office for JSC employees.

Editor: Janet Wrather      Photographer: A. "Pat" Patnesky

# JSC Employees See Their Dollars 'Work'



**VISITING AGENCIES**—In the top photo, social worker Judy Myers explains the functions of the Cerebral Palsy Center to JSC employees. In the center photo, little Michelle Rodriguez receives therapy on the trampoline at the Cerebral Palsy Center. Employees in the bottom photo tour the library at the Houston Lighthouse for the Blind.

## United Fund

*(Continued from Page 1)*

The Lighthouse also has begun to seek people with special problems that no other agency is equipped to handle: the young blind and deaf; blind children with problems of motor coordination; blind adults with emotional problems that interfere with learning how to cope with a world that has suddenly disappeared from view; and the nearly blind, who are denied help because their visual troubles are not severe enough to class them as legally blind.

The name "Lighthouse" has become a hallmark of quality for cleaning supplies made or assembled by the sightless workers at the agency.

The Retarded Center stands on six and one-half acres of beautifully landscaped ground. A new to the mentally retarded including diagnostic intake, counseling, health services, vocational training, camping and visiting nurse service.

The Retarded Center stands on six and one-half of beautifully landscaped ground. A recent addition to the Center is an Experimental Residence Hall which operates on the "buddy system"—two to a room.

The Center contains an upper school for students over twelve and a lower school for children two and one-half to twelve.

The curriculum emphasizes basic skills and specializes in handling emotional problems.

When the tour was completed, Jack Jones, Chief of Quality Assurance commented, "All employees should visit at least one of the agencies supported by the United Fund to see for themselves the significance of their donations. I personally feel that if one small child benefits from my contribution, it will have all been worthwhile."



**LIGHTHOUSE SCENES**—Tom Flores at the Houston Lighthouse for the Blind shows Center employees some of the equipment used by the blind. Lighthouse workers in center photo train on the MTST (Magnetic Tape Selectric Typewriter). Below, Roy Aldridge, chairman of the regional government Combined Federal Campaign thanks Tom Flores for conducting the tour at Houston Lighthouse for the Blind.

## JSC Solar Observatory Closes

Personnel from the National Oceanic and Atmospheric Administration (NOAA) who had operated the Solar Observatory at JSC since 1970, recently moved to the Marshall Spaceflight Center in Huntsville, Alabama. NOAA's space environmental laboratory representative, Jesse Smith, says that employees moving to MSFC will continue work as co-investigators of the Skylab SO56 experiment.

SO56 was a Marshall experiment conducted with the Apollo Telescope Mount (ATM) onboard Skylab. The objective of this experiment was to gather solar radiation data in the X-ray region of the solar spectrum which would produce information regarding physical processes occurring within the solar atmosphere, with special emphasis on obtaining data of active solar phenomena such as solar flares.

Built in 1966 for the then Manned Spacecraft Center, the solar observatory was first part of NASA's Solar Particle Alert Network (SPAN), a support operation for the Apollo program. The station built in Houston, Texas, one of seven around the world, was operated by NASA and con-

tractor personnel until the latter Apollo missions in 1970 when NOAA took over operation of SPAN. SPAN's prime function during the Apollo program was to observe solar activity that accelerated high energy particles which would have created a radiation hazard for the astronauts outside the command module and also outside the protective magnetosphere of the earth. When solar flares were observed, analysis were performed to determine whether high energy particles were ejected into interplanetary space and thus might be observed by the manned or unmanned satellite. Although no mission was affected, the possibility always existed.

During the more recent Skylab mission, NOAA operated a full time world wide solar patrol. In addition to briefing scientists daily as to the activity of the sun, NOAA handed out real-time solar information which contributed to the daily flight plan. This real-time data was obtained from observers who manned the eyepiece of the solar telescope and television images taken from the telescope located at JSC.



THE JSC SOLAR OBSERVATORY AS IT IS NOW.

## JSC Stamp Club Holds 4th Exhibit

"Salute to the Apollo-Soyuz Test Project" is the theme of the fourth annual JSC Stamp Club Exhibition. Called SPACEPEX, the exhibition will take place September 28-29 at the Holiday Inn, 1300 NASA Road 1.

A commemorative cancellation postmark depicting the docked Apollo and Soyuz spacecraft has been approved for use by the United States Postal Service.

Also multi-colored cachet honoring the event has been designed by the JSC Stamp Club and will be available during the exhibition.

Special awards will be given for outstanding exhibits; the Stamp Club will present its sterling silver space medallion.

Admission to all areas is free during exhibition hours. For more information, contact Lee Scamp, X2201.